

2. The golf club head according to claim 1 wherein a rim of said diaphragm is completely attached to a inner wall of said golf club head.
3. The golf club head according to claim 1 wherein said rim of said diaphragm is partially attached to said inner wall of said golf club head.
4. The golf club head according to claim 1 wherein said diaphragm is convex in shape.
5. The golf club head according to claim 1 wherein said diaphragm is concave in shape.
6. The golf club head according to claim 1 wherein said diaphragm is bell-shaped.
7. The golf club head according to claim 1 wherein said diaphragm is irregular in shape.
8. The golf club head according to claim 1 wherein there are a plurality of said diaphragms.
9. The golf club head according to claim 1 wherein there is at least one hole in said diaphragm.
10. The golf club head according to claim 1 wherein an entire body of said diaphragm is completely attached to said inner wall of said golf club head.
11. The golf club head according to claim 1 wherein a space between golf club head face and said diaphragm is filled with various gases, compressed gases or liquids.
12. In said golf club head, the improvement comprising:  
various gases, compressed gases or liquids, and  
means to put these materials inside said golf club head.